

SEQUENCE LISTING

<110> Wyeth
 Ling, Vincent
 Carreno, Beatriz M.
 Collins, Mary

<120> USE OF B7-H3 TO INHIBIT LYMPHOCYTE PROLIFERATION (As Amended)

<130> 08702.6108-00000

<140> US/10/824,481
 <141> 2004-04-15

<160> 35

<170> PatentIn version 3.5

<210> 1
 <211> 951
 <212> DNA
 <213> Homo sapiens

<400> 1
 atgctgcgtc ggcggggcag ccctggcatg ggtgtgcatg tgggtgcagc cctgggagca 60
 ctgtggttct gcctcacagg agccctggag gtccagggtcc ctgaagaccc agtgggtggca 120
 ctggtgggca ccgatgccac cctgtgctgc tccttctccc ctgagcctgg cttcagcctg 180
 gcacagctca acctcatctg gcagctgaca gataccaaac agctgggtgca cagctttgct 240
 gagggccagg accagggcag cgcctatgcc aaccgcacgg ccctcttccc ggacctgctg 300
 gcacagggca acgcatccct gaggtgcatg cgcgtgcgtg tggcggacga gggcagcttc 360
 acctgcttcg tgagcatccg ggatttcggc agcgtgcccg tcagcctgca ggtggccgct 420
 ccctactcga agcccagcat gaccctggag cccaacaagg acctgcggcc aggggacacg 480
 gtgaccatca cgtgctccag ctaccggggc taccctgagg ctgaggtgtt ctggcaggat 540
 gggcaggggtg tgccctgac tggcaacgtg accacgtcgc agatggccaa cgagcagggc 600
 ttgtttgatg tgcacagcgt cctgcgggtg gtgctgggtg cgaatggcac ctacagctgc 660
 ctggtgcgca accccgtgct gcagcaggat gcgcacggct ctgtcaccat cacagggcag 720
 cctatgacat tccccccaga ggccctgtgg gtgaccgtgg ggctgtctgt ctgtctcatt 780
 gcaactgctgg tggccctggc tttcgtgtgc tggagaaaga tcaaacagag ctgtgaggag 840
 gagaatgcag gagctgagga ccaggatggg gagggagaag gctccaagac agccctgcag 900
 cctctgaaac actctgacag caaagaagat gatggacaag aaatagcctg a 951

<210> 2
<211> 316
<212> PRT
<213> Homo sapiens

<400> 2

Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala
1 5 10 15

Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln
20 25 30

Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
35 40 45

Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn
50 55 60

Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala
65 70 75 80

Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe
85 90 95

Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val
100 105 110

Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp
115 120 125

Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys
130 135 140

Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr
145 150 155 160

Val Thr Ile Thr Cys Ser Ser Tyr Arg Gly Tyr Pro Glu Ala Glu Val
165 170 175

Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
180 185 190

Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Val Leu
195 200 205

Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
 210 215 220

Pro Val Leu Gln Gln Asp Ala His Gly Ser Val Thr Ile Thr Gly Gln
 225 230 235 240

Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser
 245 250 255

Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg
 260 265 270

Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln
 275 280 285

Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His
 290 295 300

Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala
 305 310 315

<210> 3
 <211> 951
 <212> DNA
 <213> Mouse

<400> 3
 atgcttcgag gatgggggtgg cccagtggtg ggtgtgtgtg tgcgcacagc actgggggtg 60
 ctgtgcctct gcctcacagg agctgtggaa gtccaggtct ctgaagaccc cgtggtggcc 120
 ctggtggaca cggatgccac cctacgtgc tccttttccc cagagcctgg cttcagctctg 180
 gcacagctca acctcatctg gcagctgaca gacaccaaac agctggtgca cagcttcacg 240
 gagggccggg accaaggcag tgctactcc aaccgcacag cgctcttccc tgacctgttg 300
 gtgcaaggca atgcgtcctt gaggctgcag cgcgtccgag taaccgacga gggcagctac 360
 acctgctttg tgagcatcca ggactttgac agcgtgtgtg ttagcctgca ggtggccgcc 420
 ccctactcga agcccagcat gaccctggag cccaacaagg acctacgtcc agggaaacatg 480
 gtgaccatca cgtgctctag ctaccagggc tatccggagg ccgaggtggt ctggaaggat 540
 ggacagggag tgcccttgac tggcaatgtg accacatccc agatggccaa cgagcggggc 600
 ttgttcgatg ttcacagcgt gctgaggggtg gtgctgggtg ctaacggcac ctacagctgc 660

| | |
|---|-----|
| ctggtacgca acccggtgtt gcagcaagat gctcacggct cagtcaccat cacagggcag | 720 |
| cccctgacat tccccctga ggctctgtgg gtaaccgtgg ggctctctgt ctgtcttgtg | 780 |
| gtactactgg tggccctggc tttcgtgtgc tggagaaaga tcaagcagag ctgcgaggag | 840 |
| gagaatgcag gtgccgagga ccaggatgga gatggagaag gatccaagac agctctacgg | 900 |
| cctctgaaac cctctgaaaa caaagaagat gacggacaag aaattgcttg a | 951 |

<210> 4
 <211> 316
 <212> PRT
 <213> Mouse

<400> 4

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Arg | Gly | Trp | Gly | Gly | Pro | Ser | Val | Gly | Val | Cys | Val | Arg | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Gly | Val | Leu | Cys | Leu | Cys | Leu | Thr | Gly | Ala | Val | Glu | Val | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Glu | Asp | Pro | Val | Val | Ala | Leu | Val | Asp | Thr | Asp | Ala | Thr | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Cys | Ser | Phe | Ser | Pro | Glu | Pro | Gly | Phe | Ser | Leu | Ala | Gln | Leu | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ile | Trp | Gln | Leu | Thr | Asp | Thr | Lys | Gln | Leu | Val | His | Ser | Phe | Thr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Arg | Asp | Gln | Gly | Ser | Ala | Tyr | Ser | Asn | Arg | Thr | Ala | Leu | Phe |
| | | | | 85 | | | | | | 90 | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Asp | Leu | Leu | Val | Gln | Gly | Asn | Ala | Ser | Leu | Arg | Leu | Gln | Arg | Val |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Val | Thr | Asp | Glu | Gly | Ser | Tyr | Thr | Cys | Phe | Val | Ser | Ile | Gln | Asp |
| | | 115 | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Asp | Ser | Ala | Ala | Val | Ser | Leu | Gln | Val | Ala | Ala | Pro | Tyr | Ser | Lys |
| | 130 | | | | | 135 | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Met | Thr | Leu | Glu | Pro | Asn | Lys | Asp | Leu | Arg | Pro | Gly | Asn | Met |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |

Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val
165 170 175

Phe Trp Lys Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
180 185 190

Ser Gln Met Ala Asn Glu Arg Gly Leu Phe Asp Val His Ser Val Leu
195 200 205

Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
210 215 220

Pro Val Leu Gln Gln Asp Ala His Gly Ser Val Thr Ile Thr Gly Gln
225 230 235 240

Pro Leu Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser
245 250 255

Val Cys Leu Val Val Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg
260 265 270

Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln
275 280 285

Asp Gly Asp Gly Glu Gly Ser Lys Thr Ala Leu Arg Pro Leu Lys Pro
290 295 300

Ser Glu Asn Lys Glu Asp Asp Gly Gln Glu Ile Ala
305 310 315

<210> 5
<211> 1605
<212> DNA
<213> Homo sapiens

<400> 5
atgctgcgtc ggcggggcag ccctggcatg ggtgtgcatg tgggtgcagc cctgggagca 60
ctgtggttct gcctcacagg agccctggag gtccagggtc ctgaagaccc agtgggtggca 120
ctggtgggca ccgatgccac cctgtgctgc tccttctccc ctgagcctgg cttcagcctg 180
gcacagctca acctcatctg gcagctgaca gataccaaac agctgggtgca cagctttgct 240
gagggccagg accagggcag cgcctatgcc aaccgcacgg ccctcttccc ggacctgctg 300

| | |
|--|------|
| gcacagggca acgcatccct gaggctgcag cgcgtgcgtg tggcggacga gggcagcttc | 360 |
| acctgcttcg tgagcatccg ggatttcggc agcgtgcgcg tcagcctgca ggtggccgct | 420 |
| ccctactcga agcccagcat gaccctggag cccaacaagg acctgcggcc aggggacacg | 480 |
| gtgaccatca cgtgctccag ctaccagggc taccctgagg ctgaggtggt ctggcaggat | 540 |
| gggcaggggtg tgcccttgac tggcaacgtg accacgtcgc agatggccaa cgagcagggc | 600 |
| ttgtttgatg tgcacagcat cctgcgggtg gtgctgggtg caaatggcac ctacagctgc | 660 |
| ctggtgcgca acccctgct gcagcaggat gcgcacagct ctgtcaccat cacacccag | 720 |
| agaagcccca caggagccgt ggaggtccag gtccctgagg acccgggtgtt ggccctagt | 780 |
| ggcaccgatg ccacctgcg ctgctccttc tccccgagc ctggcttcag cctggcacag | 840 |
| ctcaacctca tctggcagct gacagacacc aaacagctgg tgcacagttt caccgaaggc | 900 |
| cgggaccagg gcagcgccta tgccaaccgc acggccctct tcccggacct gctggcacia | 960 |
| ggcaatgcat ccctgaggct gcagcgcgtg cgtgtggcgg acgagggcag cttcacctgc | 1020 |
| ttcgtgagca tccgggattt cggcagcgtg gccgtcagcc tgcaggtggc cgtccctac | 1080 |
| tcgaagccca gcatgacct ggagcccaac aaggacctgc ggcagggga cacggtgacc | 1140 |
| atcacgtgct ccagctaccg gggctaccct gaggtgagg tgttctggca ggatgggcag | 1200 |
| ggtgtgcccc tgactggcaa cgtgaccacg tcgcagatgg ccaacgagca gggcttggtt | 1260 |
| gatgtgcaca gcgtcctgcg ggtggtgctg ggtgcgaatg gcacctacag ctgcctggtg | 1320 |
| cgaaccccc tgctgcagca ggatgcgcac ggctctgtca ccatcacagg gcagcctatg | 1380 |
| acattcccc cagaggccct gtgggtgacc gtggggctgt ctgtctgtct cattgcactg | 1440 |
| ctggtggccc tggctttcgt gtgctggaga aagatcaaac agagctgtga ggaggagaat | 1500 |
| gcaggagctg aggaccagga tggggaggga gaaggctcca agacagccct gcagcctctg | 1560 |
| aaacactctg acagcaaaga agatgatgga caagaaatag cctga | 1605 |

<210> 6
 <211> 534
 <212> PRT
 <213> Homo sapiens

<400> 6

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Arg | Arg | Arg | Gly | Ser | Pro | Gly | Met | Gly | Val | His | Val | Gly | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln
20 25 30

Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
35 40 45

Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn
50 55 60

Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala
65 70 75 80

Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe
85 90 95

Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val
100 105 110

Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp
115 120 125

Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys
130 135 140

Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr
145 150 155 160

Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val
165 170 175

Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
180 185 190

Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu
195 200 205

Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
210 215 220

Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Pro Gln
225 230 235 240

Arg Ser Pro Thr Gly Ala Val Glu Val Gln Val Pro Glu Asp Pro Val

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | | 245 | | | | | | 250 | | | | | 255 | |
| Val | Ala | Leu | Val | Gly | Thr | Asp | Ala | Thr | Leu | Arg | Cys | Ser | Phe | Ser | Pro | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Glu | Pro | Gly | Phe | Ser | Leu | Ala | Gln | Leu | Asn | Leu | Ile | Trp | Gln | Leu | Thr | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Asp | Thr | Lys | Gln | Leu | Val | His | Ser | Phe | Thr | Glu | Gly | Arg | Asp | Gln | Gly | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Ser | Ala | Tyr | Ala | Asn | Arg | Thr | Ala | Leu | Phe | Pro | Asp | Leu | Leu | Ala | Gln | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Gly | Asn | Ala | Ser | Leu | Arg | Leu | Gln | Arg | Val | Arg | Val | Ala | Asp | Glu | Gly | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| Ser | Phe | Thr | Cys | Phe | Val | Ser | Ile | Arg | Asp | Phe | Gly | Ser | Ala | Ala | Val | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Ser | Leu | Gln | Val | Ala | Ala | Pro | Tyr | Ser | Lys | Pro | Ser | Met | Thr | Leu | Glu | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Pro | Asn | Lys | Asp | Leu | Arg | Pro | Gly | Asp | Thr | Val | Thr | Ile | Thr | Cys | Ser | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Ser | Tyr | Arg | Gly | Tyr | Pro | Glu | Ala | Glu | Val | Phe | Trp | Gln | Asp | Gly | Gln | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Gly | Val | Pro | Leu | Thr | Gly | Asn | Val | Thr | Thr | Ser | Gln | Met | Ala | Asn | Glu | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |
| Gln | Gly | Leu | Phe | Asp | Val | His | Ser | Val | Leu | Arg | Val | Val | Leu | Gly | Ala | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| Asn | Gly | Thr | Tyr | Ser | Cys | Leu | Val | Arg | Asn | Pro | Val | Leu | Gln | Gln | Asp | |
| | | 435 | | | | | 440 | | | | | 445 | | | | |
| Ala | His | Gly | Ser | Val | Thr | Ile | Thr | Gly | Gln | Pro | Met | Thr | Phe | Pro | Pro | |
| | 450 | | | | | 455 | | | | | 460 | | | | | |
| Glu | Ala | Leu | Trp | Val | Thr | Val | Gly | Leu | Ser | Val | Cys | Leu | Ile | Ala | Leu | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | |

Leu Val Ala Leu Ala Phe Val Cys Trp Arg Lys Ile Lys Gln Ser Cys
485 490 495

Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln Asp Gly Glu Gly Glu Gly
500 505 510

Ser Lys Thr Ala Leu Gln Pro Leu Lys His Ser Asp Ser Lys Glu Asp
515 520 525

Asp Gly Gln Glu Ile Ala
530

<210> 7
<211> 112
<212> PRT
<213> Homo sapience

<400> 7

Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu Val Gly
1 5 10 15

Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser
20 25 30

Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu
35 40 45

Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn
50 55 60

Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu
65 70 75 80

Arg Leu Gln Arg Val Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe
85 90 95

Val Ser Ile Arg Asp Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala
100 105 110

<210> 8
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> L, or V, or any other amino acid

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> C, or R, or any other amino acid

<220>
<221> MISC_FEATURE
<222> (53)..(53)
<223> A, or T, or any other amino acid

<220>
<221> MISC_FEATURE
<222> (56)..(56)
<223> Q, or R, or any other amino acid

<400> 8

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Glu | Val | Gln | Val | Pro | Glu | Asp | Pro | Val | Val | Ala | Leu | Val | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asp | Ala | Thr | Leu | Xaa | Cys | Ser | Phe | Ser | Pro | Glu | Pro | Gly | Phe | Ser |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Gln | Leu | Asn | Leu | Ile | Trp | Gln | Leu | Thr | Asp | Thr | Lys | Gln | Leu |
| | | 35 | | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | His | Ser | Phe | Xaa | Glu | Gly | Xaa | Asp | Gln | Gly | Ser | Ala | Tyr | Ala | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Thr | Ala | Leu | Phe | Pro | Asp | Leu | Leu | Ala | Gln | Gly | Asn | Ala | Ser | Leu |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Gln | Arg | Val | Arg | Val | Ala | Asp | Glu | Gly | Ser | Phe | Thr | Cys | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ser | Ile | Arg | Asp | Phe | Gly | Ser | Ala | Ala | Val | Ser | Leu | Gln | Val | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |

<210> 9
<211> 1670
<212> DNA
<213> Chimera

<400> 9

| | |
|---|------|
| atgggggtac tgctcacaca gaggacgctg ctcagtctgg tccttgact cctgtttcca | 60 |
| agcatggcca gcatgctgga ggtccaggtc cctgaagacc cagtgggtggc actgggtgggc | 120 |
| accgatgcca ccctgtgctg ctccttctcc cctgagcctg gcttcagcct ggcacagctc | 180 |
| aacctcatct ggcagctgac agatacaaaa cagctgggtgc acagctttgc tgagggccag | 240 |
| gaccagggca ggcctatgc caaccgcacg gccctcttcc cggacctgct ggcacagggc | 300 |
| aacgcatccc tgaggctgca gcgcgtgcgt gtggcggacg agggcagctt cacctgcttc | 360 |
| gtgagcatcc gggatttcgg cagcgtgcc gtcagcctgc aggtggccgc tccctactcg | 420 |
| aagcccagca tgacctgga gcccaacaag gacctgcggc caggggacac ggtgaccatc | 480 |
| acgtgctcca gctaccgggg ctaccctgag gctgaggtgt tctggcagga tgggcagggt | 540 |
| gtgcccctga ctggcaacgt gaccacgtcg cagatggcca acgagcaggg cttgtttgat | 600 |
| gtgcacagcg tcctgcgggt ggtgctgggt gcgaatggca cctacagctg cctggtgcgc | 660 |
| aaccccgtgc tgcagcagga tgcgcacggc tctgtcacca tcacaggga gcctatgaca | 720 |
| ttccccccag aggcagggtc ggggtccgag ccccgcgga cgcacatcaa gccctgtcct | 780 |
| ccatgcaaat gccaggtaa gtcactagac cagagctcca ctcccggag aatggtaagt | 840 |
| gctataaaca tcctgcact agaggataag ccatgtacag atccatttcc atctctctc | 900 |
| atcagcacct aacctcgagg gtggaccatc cgtcttcac tcacctcaa agatcaagga | 960 |
| tgtactcatg atctccctga gcccatagt cacatgtgtg gtggtggatg tgagcgagga | 1020 |
| tgaccagat gtccagatca gctggtttgt gaacaacgtg gaagtacaca cagctcagac | 1080 |
| acaaacccat agagaggatt acaacagtac tctccgggtg gtcagtgcc tccccatcca | 1140 |
| gcaccaggac tggatgagtg gcaaggcttt cgcatgcgcc gtcaacaaca aagacctccc | 1200 |
| agcgcccatc gagagaacca tctcaaaacc caaaggtag agctgcagcc tgactgcatg | 1260 |
| ggggctggga tgggcataag gataaaggtc tgtgtggaca gccttctgct tcagccatga | 1320 |
| cctttgtgta tgtttctacc ctcacagggt cagtaagagc tccacaggta tatgtcttgc | 1380 |
| ctccaccaga agaagagatg actaagaaac aggtcactct gacctgcatg gtcacagact | 1440 |
| tcatgcctga agacatttac gtggagtgga ccaacaacgg gaaaacagag ctaaactaca | 1500 |
| agaacactga accagtctg gactctgatg gttcttactt catgtacagc aagctgagag | 1560 |
| tggaaaagaa gaactgggtg gaaagaaata gctactctg ttcagtggtc cagaggggtc | 1620 |
| tgcacaatca ccacacgact aagagcttct cccggactcc gggtaaatga | 1670 |

<210> 10
<211> 482
<212> PRT
<213> Chimera

<400> 10

Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala
1 5 10 15

Leu Leu Phe Pro Ser Met Ala Ser Met Leu Glu Val Gln Val Pro Glu
20 25 30

Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu Cys Cys Ser
35 40 45

Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp
50 55 60

Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala Glu Gly Gln
65 70 75 80

Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu
85 90 95

Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val Arg Val Ala
100 105 110

Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp Phe Gly Ser
115 120 125

Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys Pro Ser Met
130 135 140

Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr Val Thr Ile
145 150 155 160

Thr Cys Ser Ser Tyr Arg Gly Tyr Pro Glu Ala Glu Val Phe Trp Gln
165 170 175

Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr Ser Gln Met
180 185 190

Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Val Leu Arg Val Val

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 195 | | | | | | | | | | | | | | | | | |
| Leu | Gly | Ala | Asn | Gly | Thr | Tyr | Ser | Cys | Leu | Val | Arg | Asn | Pro | Val | Leu | | |
| 210 | | | | | | 215 | | | | | 220 | | | | | | |
| Gln | Gln | Asp | Ala | His | Gly | Ser | Val | Thr | Ile | Thr | Gly | Gln | Pro | Met | Thr | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Phe | Pro | Pro | Glu | Ala | Gly | Ser | Gly | Ser | Glu | Pro | Arg | Gly | Pro | Thr | Ile | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| Lys | Pro | Cys | Pro | Pro | Cys | Lys | Cys | Pro | Ala | Pro | Asn | Leu | Glu | Gly | Gly | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Lys | Ile | Lys | Asp | Val | Leu | Met | Ile | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | |
| Ser | Leu | Ser | Pro | Ile | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser | Glu | Asp | | |
| 290 | | | | | | 295 | | | | | 300 | | | | | | |
| Asp | Pro | Asp | Val | Gln | Ile | Ser | Trp | Phe | Val | Asn | Asn | Val | Glu | Val | His | | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | | |
| Thr | Ala | Gln | Thr | Gln | Thr | His | Arg | Glu | Asp | Tyr | Asn | Ser | Thr | Leu | Arg | | |
| | | | | 325 | | | | | 330 | | | | | 335 | | | |
| Val | Val | Ser | Ala | Leu | Pro | Ile | Gln | His | Gln | Asp | Trp | Met | Ser | Gly | Lys | | |
| | | | 340 | | | | | 345 | | | | | 350 | | | | |
| Ala | Phe | Ala | Cys | Ala | Val | Asn | Asn | Lys | Asp | Leu | Pro | Ala | Pro | Ile | Glu | | |
| | | 355 | | | | | 360 | | | | | 365 | | | | | |
| Arg | Thr | Ile | Ser | Lys | Pro | Lys | Gly | Ser | Val | Arg | Ala | Pro | Gln | Val | Tyr | | |
| | 370 | | | | | 375 | | | | | 380 | | | | | | |
| Val | Leu | Pro | Pro | Pro | Glu | Glu | Glu | Met | Thr | Lys | Lys | Gln | Val | Thr | Leu | | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | | |
| Thr | Cys | Met | Val | Thr | Asp | Phe | Met | Pro | Glu | Asp | Ile | Tyr | Val | Glu | Trp | | |
| | | | | 405 | | | | | 410 | | | | | 415 | | | |
| Thr | Asn | Asn | Gly | Lys | Thr | Glu | Leu | Asn | Tyr | Lys | Asn | Thr | Glu | Pro | Val | | |
| | | | 420 | | | | | 425 | | | | | 430 | | | | |

Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu
 435 440 445

Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val His
 450 455 460

Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser Arg Thr Pro
 465 470 475 480

Gly Lys

<210> 11
 <211> 2324
 <212> DNA
 <213> Chimera

<400> 11
 atgggggtac tgctcacaca gaggacgctg ctcagtctgg tccttgcaact cctgtttcca 60
 agcatggcca gcatgctgga ggtccaggtc cctgaagacc cagtgggtggc actgggtgggc 120
 accgatgcca ccctgtgctg ctctttctcc cctgagcctg gcttcagcct ggcacagctc 180
 aacctcatct ggcagctgac agataccaaa cagctggtgc acagctttgc tgagggccag 240
 gaccagggca gcgcctatgc caaccgcacg gccctcttcc cggacctgct ggcacagggc 300
 aacgcattcc tgaggtgca gcgcgtgcgt gtggcgagc agggcagctt cacctgcttc 360
 gtgagcatcc gggatttcgg cagcgtgccc gtcagcctgc aggtggccgc tccctactcg 420
 aagcccagca tgaccctgga gccaacaag gacctgcggc caggggacac ggtgaccatc 480
 acgtgctcca gctaccaggg ctaccctgag gctgaggtgt tctggcagga tgggcagggc 540
 gtgcccctga ctggcaacgt gaccacgtcg cagatggcca acgagcaggg cttgtttgat 600
 gtgcacagca tcctgcggtt ggtgctgggt gcaaattggc cctacagctg cctggtgcgc 660
 aaccccgctg tgcagcagga tgcgcacagc tctgtcacca tcacaccca gagaagcccc 720
 acaggagccg tggaggtcca ggtccctgag gacccggtgg tggccctagt gggcaccgat 780
 gccaccctgc gctgctcctt ctcccccgag cctggcttca gcctggcaca gctcaacctc 840
 atctggcagc tgacagacac caaacagctg gtgcacagtt tcaccgaagg ccgggaccag 900
 ggcagcgctt atgccaaccg caggccctc ttcccgacc tgctggcaca aggcaatgca 960
 tccctgaggc tgcagcgcgt gcgtgtggcg gacgagggca gcttcacctg cttcgtgagc 1020

```

atccgggatt tcggcagcgc tgccgtcagc ctgcaggtgg ccgctcccta ctggaagccc 1080
agcatgaccc tggagcccaa caaggacctg cggccagggg acacggtgac catcacgtgc 1140
tccagctacc ggggctaccc tgaggctgag gtgttctggc aggatgggca ggggtgtgccc 1200
ctgactggca acgtgaccac gtcgcagatg gccaacgagc agggcttggt tgatgtgcac 1260
agcgtcctgc ggggtggtgct ggggtgcgaat ggcacctaca gctgcctggg gcgcaacccc 1320
gtgctgcagc aggatgcgca cggctctgtc accatcacag ggcagcctat gacattcccc 1380
ccagaggcag ggtcggggtc cgagccccgc ggaccgacaa tcaagccctg tcctccatgc 1440
aaatgcccag gtaagtcaact agaccagagc tccactcccg ggagaatggg aagtgtcata 1500
aacatccctg cactagagga taagccatgt acagatccat ttccatctct cctcatcagc 1560
acctaacctc gaggggtggac catccgtctt catcttccct ccaaagatca aggatgtact 1620
catgatctcc ctgagcccca tagtcacatg tgtgggtggg gatgtgagcg aggatgaccc 1680
agatgtccag atcagctggg ttgtgaacaa cgtggaagta cacacagctc agacacaaac 1740
ccatagagag gattacaaca gtactctccg ggtggtcagt gccctcccca tccagcacca 1800
ggactggatg agtggcaagg ctttcgcatg cggcgtcaac aacaaagacc tcccagcgcc 1860
catcgagaga accatctcaa aacccaaagg tgagagctgc agcctgactg catgggggct 1920
gggatgggca taaggataaa ggtctgtgtg gacagccttc tgcttcagcc atgacctttg 1980
tgtatgtttc taccctcaca gggtcagtaa gagctccaca ggtatatgtc ttgcctccac 2040
cagaagaaga gatgactaag aaacagggtca ctctgacctg catgggcaca gacttcatgc 2100
ctgaagacat ttacgtggag tggaccaaca acgggaaaac agagctaaac tacaagaaca 2160
ctgaaccagt cctggactct gatggttctt acttcatgta cagcaagctg agagtggaaa 2220
agaagaactg ggtggaaaga aatagctact cctgttcagt ggtccacgag ggtctgcaca 2280
atcaccacac gactaagagc ttctcccgga ctccgggtaa atga 2324

```

```

<210> 12
<211> 700
<212> PRT
<213> Chimera

```

```

<400> 12

```

```

Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala
1           5           10           15

```

Leu Leu Phe Pro Ser Met Ala Ser Met Leu Glu Val Gln Val Pro Glu
 20 25 30

Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu Cys Cys Ser
 35 40 45

Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp
 50 55 60

Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala Glu Gly Gln
 65 70 75 80

Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu
 85 90 95

Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val Arg Val Ala
 100 105 110

Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp Phe Gly Ser
 115 120 125

Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys Pro Ser Met
 130 135 140

Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr Val Thr Ile
 145 150 155 160

Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val Phe Trp Gln
 165 170 175

Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr Ser Gln Met
 180 185 190

Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu Arg Val Val
 195 200 205

Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn Pro Val Leu
 210 215 220

Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Pro Gln Arg Ser Pro
 225 230 235 240

Thr Gly Ala Val Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 245 | | | | | | 250 | | | | | | 255 |
| Val | Gly | Thr | Asp | Ala | Thr | Leu | Arg | Cys | Ser | Phe | Ser | Pro | Glu | Pro | Gly | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Phe | Ser | Leu | Ala | Gln | Leu | Asn | Leu | Ile | Trp | Gln | Leu | Thr | Asp | Thr | Lys | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Gln | Leu | Val | His | Ser | Phe | Thr | Glu | Gly | Arg | Asp | Gln | Gly | Ser | Ala | Tyr | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Ala | Asn | Arg | Thr | Ala | Leu | Phe | Pro | Asp | Leu | Leu | Ala | Gln | Gly | Asn | Ala | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Ser | Leu | Arg | Leu | Gln | Arg | Val | Arg | Val | Ala | Asp | Glu | Gly | Ser | Phe | Thr | |
| | | | 325 | | | | | | 330 | | | | | 335 | | |
| Cys | Phe | Val | Ser | Ile | Arg | Asp | Phe | Gly | Ser | Ala | Ala | Val | Ser | Leu | Gln | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Val | Ala | Ala | Pro | Tyr | Ser | Lys | Pro | Ser | Met | Thr | Leu | Glu | Pro | Asn | Lys | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Asp | Leu | Arg | Pro | Gly | Asp | Thr | Val | Thr | Ile | Thr | Cys | Ser | Ser | Tyr | Arg | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Gly | Tyr | Pro | Glu | Ala | Glu | Val | Phe | Trp | Gln | Asp | Gly | Gln | Gly | Val | Pro | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Leu | Thr | Gly | Asn | Val | Thr | Thr | Ser | Gln | Met | Ala | Asn | Glu | Gln | Gly | Leu | |
| | | | 405 | | | | | | 410 | | | | | 415 | | |
| Phe | Asp | Val | His | Ser | Val | Leu | Arg | Val | Val | Leu | Gly | Ala | Asn | Gly | Thr | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| Tyr | Ser | Cys | Leu | Val | Arg | Asn | Pro | Val | Leu | Gln | Gln | Asp | Ala | His | Gly | |
| | | 435 | | | | | 440 | | | | | 445 | | | | |
| Ser | Val | Thr | Ile | Thr | Gly | Gln | Pro | Met | Thr | Phe | Pro | Pro | Glu | Ala | Gly | |
| | 450 | | | | | 455 | | | | | 460 | | | | | |
| Ser | Gly | Ser | Glu | Pro | Arg | Gly | Pro | Thr | Ile | Lys | Pro | Cys | Pro | Pro | Cys | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | |

Lys Cys Pro Ala Pro Asn Leu Glu Gly Gly Pro Ser Val Phe Ile Phe
485 490 495

Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val
500 505 510

Thr Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile
515 520 525

Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr
530 535 540

His Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro
545 550 555 560

Ile Gln His Gln Asp Trp Met Ser Gly Lys Ala Phe Ala Cys Ala Val
565 570 575

Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro
580 585 590

Lys Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu
595 600 605

Glu Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp
610 615 620

Phe Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr
625 630 635 640

Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser
645 650 655

Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu
660 665 670

Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His
675 680 685

His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
690 695 700

<210> 13
<211> 1670
<212> DNA
<213> Mouse

<400> 13
atgggggtac tgctcacaca gaggacgctg ctcagtctgg tccttgcaact cctgtttcca 60
agcatggcca gcatggtgga agtccaggtc tctgaagacc ccgtggtggc cctggtggac 120
acggatgcca ccctacgctg ctccctttcc ccagagcctg gcttcagtct ggcacagctc 180
aacctcatct ggcagctgac agacaccaaa cagctggtgc acagcttcac ggagggccgg 240
gaccaaggca gtgcctactc caaccgcaca gcgctcttcc ctgacctgtt ggtgcaaggc 300
aatgcgtcct tgaggctgca gcgcgtccga gtaaccgacg agggcagcta cacctgcttt 360
gtgagcattc aggactttga cagcgtctgt gttagcctgc aggtggccgc cccctactcg 420
aagcccagca tgaccctgga gccaacaag gacctacgtc cagggaacat ggtgaccatc 480
acgtgctcta gctaccaggg ctatccggag gccgaggtgt tctggaagga tggacaggga 540
gtgcccttga ctggcaatgt gaccacatcc cagatggcca acgagcgggg cttgttcgat 600
gttcacagcg tgctgagggt ggtgctgggt gctaacggca cctacagctg cctggtacgc 660
aaccgggtgt tgcagcaaga tgctcacggc tcagtcacca tcacaggga gccctgaca 720
ttccccctg aggcagggtc ggggtccgag ccccgcggaac cgacaatcaa gccctgtcct 780
ccatgcaaat gccaggtaa gtcactagac cagagctcca ctcccgagg aatggtaagt 840
gctataaaca tccttgcaact agaggataag ccatgtacag atccatttcc atctctctc 900
atcagcacct aacctcgagg gtggaccatc cgtcttcac ttccctccaa agatcaagga 960
tgtactcatg atctccctga gcccatagt cacatgtgtg gtggtggatg tgagcgagga 1020
tgaccagat gtccagatca gctggtttgt gaacaacgtg gaagtacaca cagctcagac 1080
acaaacccat agagaggatt acaacagtac tctccgggtg gtcagtgcc tccccatcca 1140
gcaccaggac tggatgagtg gcaaggcttt cgcattgcgc gtcaacaaca aagacctccc 1200
agcgcccatc gagagaacca tctcaaaacc caaaggtag agctgcagcc tgactgcatg 1260
ggggctggga tgggcataag gataaaggtc tgtgtggaca gccttctgct tcagccatga 1320
cctttgtgta tgtttctacc ctacagggg cagtaagagc tccacaggta tatgtcttgc 1380
ctccaccaga agaagagatg actaagaaac aggtcactct gacctgcatg gtcacagact 1440
tcatgcctga agacatttac gtggagtggg ccaacaacgg gaaaacagag ctaaactaca 1500

agaacactga accagtcctg gactctgatg gttcttactt catgtacagc aagctgagag 1560
 tggaaaagaa gaactgggtg gaaagaaata gctactcctg ttcagtgggc caccaggggtc 1620
 tgcacaatca ccacacgact aagagcttct cccggactcc gggtaaata 1670

<210> 14
 <211> 482
 <212> PRT
 <213> Mouse

<400> 14

Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala
 1 5 10 15

Leu Leu Phe Pro Ser Met Ala Ser Met Val Glu Val Gln Val Ser Glu
 20 25 30

Asp Pro Val Val Ala Leu Val Asp Thr Asp Ala Thr Leu Arg Cys Ser
 35 40 45

Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp
 50 55 60

Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Thr Glu Gly Arg
 65 70 75 80

Asp Gln Gly Ser Ala Tyr Ser Asn Arg Thr Ala Leu Phe Pro Asp Leu
 85 90 95

Leu Val Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val Arg Val Thr
 100 105 110

Asp Glu Gly Ser Tyr Thr Cys Phe Val Ser Ile Gln Asp Phe Asp Ser
 115 120 125

Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys Pro Ser Met
 130 135 140

Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asn Met Val Thr Ile
 145 150 155 160

Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val Phe Trp Lys
 165 170 175

Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr Ser Gln Met
180 185 190

Ala Asn Glu Arg Gly Leu Phe Asp Val His Ser Val Leu Arg Val Val
195 200 205

Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn Pro Val Leu
210 215 220

Gln Gln Asp Ala His Gly Ser Val Thr Ile Thr Gly Gln Pro Leu Thr
225 230 235 240

Phe Pro Pro Glu Ala Gly Ser Gly Ser Glu Pro Arg Gly Pro Thr Ile
245 250 255

Lys Pro Cys Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Glu Gly Gly
260 265 270

Pro Ser Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu Met Ile
275 280 285

Ser Leu Ser Pro Ile Val Thr Cys Val Val Val Asp Val Ser Glu Asp
290 295 300

Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val His
305 310 315 320

Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Leu Arg
325 330 335

Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly Lys
340 345 350

Ala Phe Ala Cys Ala Val Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu
355 360 365

Arg Thr Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro Gln Val Tyr
370 375 380

Val Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val Thr Leu
385 390 395 400

Thr Cys Met Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val Glu Trp
405 410 415

Thr Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val
420 425 430

Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu
435 440 445

Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val His
450 455 460

Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser Arg Thr Pro
465 470 475 480

Gly Lys

<210> 15
<211> 112
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved regions in mammalian B7-H3 V1 exon

<220>
<221> Misc_feature
<222> (1)..(3)
<223> ALE, or another amino acid sequence

<220>
<221> Misc_feature
<222> (7)..(17)
<223> PEDPVVALVGT, or another amino acid sequence

<220>
<221> Misc_feature
<222> (26)..(27)
<223> SP, or another amino acid sequence

<220>
<221> Misc_feature
<222> (52)..(62)
<223> FAEGQDQGSAY, or another amino acid sequence

<220>
<221> Misc_feature
<222> (67)..(79)
<223> ALFPDLLAQGNAS, or another amino acid sequence

<220>
<221> Misc_feature
<222> (86)..(102)
<223> RVADEGSFTCFVSIRDF, or another amino acid sequence

<220>
<221> Misc_feature
<222> (107)..(107)
<223> V, or another amino acid sequence

<400> 15

Xaa Xaa Xaa Val Gln Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Asp Ala Thr Leu Cys Cys Ser Phe Xaa Xaa Glu Pro Gly Phe Ser
20 25 30

Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu
35 40 45

Val His Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Asn
50 55 60

Arg Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu
65 70 75 80

Arg Leu Gln Arg Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Gly Ser Ala Ala Xaa Ser Leu Gln Val Ala
100 105 110

<210> 16
<211> 3
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 16

Val Gln Val
1

<210> 17
<211> 8

<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 17

Asp Ala Thr Leu Cys Cys Ser Phe
1 5

<210> 18
<211> 24
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 18

Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr
1 5 10 15

Asp Thr Lys Gln Leu Val His Ser
20

<210> 19
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 19

Ala Asn Arg Thr
1

<210> 20
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 20

Leu Arg Leu Gln Arg Val
1 5

<210> 21
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 21

Gly Ser Ala Ala
1

<210> 22
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved among mammals

<400> 22

Ser Leu Gln Val Ala
1 5

<210> 23
<211> 112
<212> PRT
<213> Artificial sequence

<220>
<223> Conserved amino acids in human B7-H3 V1 and V2

<220>
<221> Misc_feature
<222> (2)..(2)
<223> L or V, or another amino acid

<220>
<221> Misc_feature
<222> (22)..(22)
<223> C or R, or another amino acid

<220>
<221> Misc_feature
<222> (53)..(53)
<223> A or T, or another amino acid

<220>
<221> Misc_feature
<222> (56)..(56)
<223> Q or R, or another amino acid

<400> 23

Ala Xaa Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu Val Gly
1 5 10 15

Thr Asp Ala Thr Leu Xaa Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser
20 25 30

Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu
35 40 45

Val His Ser Phe Xaa Glu Gly Xaa Asp Gln Gly Ser Ala Tyr Ala Asn
50 55 60

Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu
65 70 75 80

Arg Leu Gln Arg Val Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe
85 90 95

Val Ser Ile Arg Asp Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala
100 105 110

<210> 24

<211> 55

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 24

ggggacaagt ttgtacaaaa aagcaggctc caccatgctg cgtcggcgagg gcagc 55

<210> 25

<211> 50

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 25

ggggaccact ttgtacaaga aagctggggt caggctatatt cttgtccatc 50

<210> 26

<211> 22

<212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 26
 ctctgggggg aatgtcatag gc 22

 <210> 27
 <211> 55
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 27
 ggggacaagt ttgtacaaaa aagcaggctc caccatgctt cgaggatggg gtggc 55

 <210> 28
 <211> 50
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 28
 ggggaccact ttgtacaaga aagctgggtt caagcaattt cttgtccgtc 50

 <210> 29
 <211> 21
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 29
 agctttgctg agggccagga c 21

 <210> 30
 <211> 22
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 30
 ctgggagcac tgtggttctg cc 22

<210> 31
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 31
ctggcacagc tcaacctcat c

21

<210> 32
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 32
accaggcagc tgtaggtgcc

20

<210> 33
<211> 22
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 33
ctgtgatggt gactgagccg tg

22

<210> 34
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 34
cgcggtgcgtg tggcggatga g

21

<210> 35
<211> 22
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 35
tacaggaatc agcactgggt tc

22